

10615383.txt
Title: US-10-615-383A-7_COPY_252_1895
Perfect score: 1644
Sequence: 1 gagaat acagt acaagacgt acttgcctcct gaaaaaact 1644

RESULT 3

ABN93014

ID ABN93014 standard; DNA; 2793 BP.

XX

AC ABN93014;

XX

DT 24-JUL-2002 (first entry)

XX

DE Staphylococcus epidermidis ORF nucleic acid sequence SEQ ID NO: 2477.

XX

KW Staphylococcus epidermidis; open reading frame; ORF; bacterial infection;

KW antibacterial; gene therapy; gene; ds.

XX

OS Staphylococcus epidermidis.

XX

PN US6380370-B1.

XX

PD 30-APR-2002.

XX

PF 13-AUG-1998; 98US-00134001.

XX

PR 14-AUG-1997; 97US-0055779P.

PR 08-NOV-1997; 97US-0064964P.

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PA (GENO-) GENOME THERAPEUTICS CORP.

XX

PI Doucette-Stamm LA, Bush D;

XX

DR WPI; 2002-381255/41.

DR P-PSDB; ABP40469.

XX

PT Novel isolated nucleic acid encoding a Staphylococcus epidermidis

PT polypeptide, useful for diagnosing and treating bacterial infections.

XX

PS Disclosure; SEQ ID NO 2477; 267pp; English.

XX

CC ABN90538 to ABN93374 represent Staphylococcus epidermidis open reading
CC frame (ORF) nucleic acid sequences which encode the amino acid sequences
CC given in ABP35124 to ABP37960. The S. epidermidis sequences have
CC antibacterial activity and can be used in gene therapy. The sequences can
CC also be used in the diagnosis and treatment of bacterial infections,
CC particularly S. epidermidis infections. The sequences can be used to
CC screen for compounds able to interfere with the S. epidermidis life cycle
CC or inhibit S. epidermidis infection. N.B. The sequence data for this
CC patent did not form part of the printed specification, but was obtained
CC in electronic format directly from the USPTO web site

XX

SQ Sequence 2793 BP; 1149 A; 423 C; 497 G; 724 T; 0 U; 0 Other;

Query Match 100.0% Score 1644; DB 1; Length 2793;

Best Local Similarity 100.0%

Matches 1644; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAGAATACAGTACAAGACGTTAAAGATTGATGATGAATTATCAGATAGCAAT 60

Db 151 GAGAATACAGTACAAGACGTTAAAGATTGATGATGAATTATCAGATAGCAAT 210

10615383. t xt

Qy	61	GATCAGTCCAGTAATGAAGAAAAGAATGATGTAATCAATAATAGTCAGTCATAAACACC	120
Db	211	GATCAGTCCAGTAATGAAGAAAAGAATGATGTAATCAATAATAGTCAGTCATAAACACC	270
Qy	121	GATGATGATAACCAAATAAAAAAGAAGAAACGAATAGCAACGATGCCATAGAAAATCGC	180
Db	271	GATGATGATAACCAAATAAAAAAGAAGAAACGAATAGCAACGATGCCATAGAAAATCGC	330
Qy	181	TCTAAAGATATAACACAGTCACACAACAAATGTAGATGAAAACGAAGCAACATTTCACAA	240
Db	331	TCTAAAGATATAACACAGTCACACAACAAATGTAGATGAAAACGAAGCAACATTTCACAA	390
Qy	241	AAGACCCCTCAAGATAATACTCAGCTAAAGAAGAAGTGGTAAAAGAACCCCTCATCAGTC	300
Db	391	AAGACCCCTCAAGATAATACTCAGCTAAAGAAGAAGTGGTAAAAGAACCCCTCATCAGTC	450
Qy	301	GAATCCTCAAATTCAATGGACTGCCCCAACACCATTCTCATACAACAATAATAGT	360
Db	451	GAATCCTCAAATTCAATGGACTGCCCCAACACCATTCTCATACAACAATAATAGT	510
Qy	361	GAAGCATCTATTCAAACAAAGTGATAATGAAGAAAATTCCCGGTATCAGATTGCTAAC	420
Db	511	GAAGCATCTATTCAAACAAAGTGATAATGAAGAAAATTCCCGGTATCAGATTGCTAAC	570
Qy	421	TCTAAAATAATAGAGAGTAACACTGAATCCAATAAGAAGAGAAACTATAGAGAACCT	480
Db	571	TCTAAAATAATAGAGAGTAACACTGAATCCAATAAGAAGAGAAACTATAGAGAACCT	630
Qy	481	AACAAAGTAAGAGAAGATTCAATAACAAGTCACCGCTAGCTATAAAATATAGATGAA	540
Db	631	AACAAAGTAAGAGAAGATTCAATAACAAGTCACCGCTAGCTATAAAATATAGATGAA	690
Qy	541	AAAATTCAAATCAAGATGAGTTATTAAATTACCAATAATGAATATGAAAATAAGGTT	600
Db	691	AAAATTCAAATCAAGATGAGTTATTAAATTACCAATAATGAATATGAAAATAAGGTT	750
Qy	601	AGACCGTTATCTACAACATCTGCCAACCATCGAGTAAGCGTGTACCGTAAATCAATT	660
Db	751	AGACCGTTATCTACAACATCTGCCAACCATCGAGTAAGCGTGTACCGTAAATCAATT	810
Qy	661	GCGGCAGAACAAAGGTCGAATGTTAATCATTAAATTAAAGTTACTGATCAAAGTATTACT	720
Db	811	GCGGCAGAACAAAGGTCGAATGTTAATCATTAAATTAAAGTTACTGATCAAAGTATTACT	870
Qy	721	GAAGGATATGATGATAGTGATGGTATTAAAGCACATGATGCTGAAAACCTAATCTAT	780
Db	871	GAAGGATATGATGATAGTGATGGTATTAAAGCACATGATGCTGAAAACCTAATCTAT	930
Qy	781	GATGTAACTTGAAGTAGATGATAAGGTGAAATCTGGTGATACGATGACAGTGAAATATA	840
Db	931	GATGTAACTTGAAGTAGATGATAAGGTGAAATCTGGTGATACGATGACAGTGAAATATA	990
Qy	841	GATAAGAACACAGTCCATCAGATTAAACCGATAGTTGCAATACCAAAATAAAAGAT	900
Db	991	GATAAGAACACAGTCCATCAGATTAAACCGATAGTTGCAATACCAAAATAAAAGAT	1050
Qy	901	AATTCTGGAGAACATCGCTACAGGTACTTATGACAACACAAATAACAAATTACCTAC	960
Db	1051	AATTCTGGAGAACATCGCTACAGGTACTTATGACAACACAAATAACAAATTACCTAC	1110
Qy	961	ACTTTACAGATTATGTAGATAAAATATGAAAATTAAAGCGCACCTTAAATTACATCA	1020
Db	1111	ACTTTACAGATTATGTAGATAAAATATGAAAATTAAAGCGCACCTTAAATTACATCA	1170

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Qy	1021	TACATTGATAAATCAAAGGTTCAAATAAACACTAACAGTTAGATGTAGAATATAAGACG	1080
Db	1171	TACATTGATAAATCAAAGGTTCAAATAAACACTAACAGTTAGATGTAGAATATAAGACG	1230
Qy	1081	GCCCTTCATCAGTAAATAAAACAATTACGGTTGAATATCAAAAACCTAACGAAAATCGG	1140
Db	1231	GCCCTTCATCAGTAAATAAAACAATTACGGTTGAATATCAAAAACCTAACGAAAATCGG	1290
Qy	1141	ACTGCTAACCTCAAAGTATGTTCACAAACATAGATACGAAAAACCATAACAGTTGAGCAA	1200
Db	1291	ACTGCTAACCTCAAAGTATGTTCACAAACATAGATACGAAAAACCATAACAGTTGAGCAA	1350
Qy	1201	ACGATTATATTAAACCTCTTCGTTATTCAGCCAAGAACAAATGTAATATTTCAGGG	1260
Db	1351	ACGATTATATTAAACCTCTTCGTTATTCAGCCAAGAACAAATGTAATATTTCAGGG	1410
Qy	1261	AATGGCGATGAAGGTTCAACAATTATCGACGATAGTACAATCATTAAAGTTATAAGGTT	1320
Db	1411	AATGGCGATGAAGGTTCAACAATTATCGACGATAGTACAATCATTAAAGTTATAAGGTT	1470
Qy	1321	GGAGATAATCAAAATTACAGATAGAACAGAATTATGATTACAGTGAATATGAAGAT	1380
Db	1471	GGAGATAATCAAAATTACAGATAGAACAGAATTATGATTACAGTGAATATGAAGAT	1530
Qy	1381	GTCACAAATGATGATTATGCCAATTAGGAATAATAATGACGTGAATATTAAAGGTT	1440
Db	1531	GTCACAAATGATGATTATGCCAATTAGGAATAATAATGACGTGAATATTAAAGGTT	1590
Qy	1441	AATATAGATTACCATATATTAAAGTTATTAGTAAATATGACCTAATAAGGACGAT	1500
Db	1591	AATATAGATTACCATATATTAAAGTTATTAGTAAATATGACCTAATAAGGACGAT	1650
Qy	1501	TACACGACGATACAGCAAACGTGACAATGCCAACGACTATAATGAGTAACTGGTAG	1560
Db	1651	TACACGACGATACAGCAAACGTGACAATGCCAACGACTATAATGAGTAACTGGTAG	1710
Qy	1561	TTTAGAACAGCATCCTATGATAATACAATTGCTTCTACAAGTTAGGTCAAGGACAA	1620
Db	1711	TTTAGAACAGCATCCTATGATAATACAATTGCTTCTACAAGTTAGGTCAAGGACAA	1770
Qy	1621	GGTGACTTGCCTCCTGAAAAAACT	1644
Db	1771	GGTGACTTGCCTCCTGAAAAAACT	1794

Title: US- 10- 615- 383A- 7

Perfect score: 2976

Sequence: 1 at at t gcaaaaaagact t at ccaacaaat at aaggt gt t g 2976

RESULT 4

US- 09- 134- 001C- 2477

; Sequence 2477, Application US/ 09134001C

; Patent No. 6380370

; GENERAL INFORMATION:

; APPLICANT: Lynn Doucette- Stamm et al

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATED TO STAPHYLOCOCCUS

; TITLE OF INVENTION: EPIDERMIDS FOR DIAGNOSTICS AND THERAPEUTICS

; FILE REFERENCE: GTC- 007

; CURRENT APPLICATION NUMBER: US/ 09/ 134, 001C

; CURRENT FILING DATE: 1998- 08- 13

; PRIOR APPLICATION NUMBER: US 60/ 064, 964

10615383. t xt

PRI OR FILING DATE: 1997-11-08
 PRI OR APPLIED NUMBER: US 60/055,779
 PRI OR FILING DATE: 1997-08-14
 NUMBER OF SEQ ID NOS: 5674
 SEQ ID NO 2477
 LENGTH: 2793
 TYPE: DNA
 ORGANISM: Staphylococcus epidermidis
 US-09-134-001C-2477

	Query	Match	Score	DB	Length
	Qy	102	TTAAAAAAAATAATTTACTA	3;	2793;
	Db	1	TTAAAAAAAATAATTTACTA		60
	Qy	162	GCAATTAGAAAATT	221	
	Db	61	GCAATTAGAAAATT		120
	Qy	222	GGTTTAGGT	281	
	Db	121	CATAATGAGGCCAAGCT		180
	Qy	282	AATATGGATGATGAATT	341	
	Db	181	TACAGATAGCAATGAT		240
	Qy	342	GTAATCAATAATAGTCAGT	401	
	Db	241	CAATAAACACCGATGATGATA		300
	Qy	402	ACGAATAGCAACGATGCC	461	
	Db	301	ATAGAACTAGCAACACCGATGATGATA		360
	Qy	462	GTAGATGAAAACGAAGCAAC	521	
	Db	361	ATTTACAAAAGACCCCTCAAGATA		420
	Qy	522	GTAGATGAAAACGAAGCAAC	581	
	Db	421	ATTTACAAAAGACCCCTCAAGATA		480
	Qy	582	CAACAACCCTCATACAACA	641	
	Db	481	ATAATAGTGAAACGATCTATT		540
	Qy	642	GAAGAAGTGGTAAAGAAC	701	
	Db	541	CTCATCAGATGGCTAACTCT		600
	Qy	702	AATAAAGAAGAGAA	761	
	Db	601	ACTATAGAGCAACCTAAC		660
	Qy	762	AAAGCTCTAGCTATAAA	821	
	Db	661	ATATAGATGAAAAATTCAA		720
	Qy	822	TTACCAATAATGAATATG	881	

10615383. t xt

Db	721	TTACCAATAATGAATATGAAAATAAGGTTAGACCGTTATCTACAACATCTGCCAACCA	780
Qy	882	TCGAGTAAGCGTGTAAACCGTAAATCAATTAGCGGCAGAACAGGTCGAATGTTAATCAT	941
Db	781	TCGAGTAAGCGTGTAAACCGTAAATCAATTAGCGGCAGAACAGGTCGAATGTTAATCAT	840
Qy	942	TTAATTAAAGTTACTGATCAAAGTATTACTGAAGGATATGATGATAGTGATGGTATTATT	1001
Db	841	TTAATTAAAGTTACTGATCAAAGTATTACTGAAGGATATGATGATAGTGATGGTATTATT	900
Qy	1002	AAAGCACATGATGCTGAAAACCTTAATCTATGATGTAACCTTGAAGTAGATGATAAGGTG	1061
Db	901	AAAGCACATGATGCTGAAAACCTTAATCTATGATGTAACCTTGAAGTAGATGATAAGGTG	960
Qy	1062	AAATCTGGTGTACGATGACAGTGAATATAGATAAGAACATAGTTCCATCAGATTAACC	1121
Db	961	AAATCTGGTGTACGATGACAGTGAATATAGATAAGAACATAGTTCCATCAGATTAACC	1020
Qy	1122	GATAGTTTGCAATACCAAAAAAATAAAAGATAATTCTGGAGAAATCATCGTACAGGTACT	1181
Db	1021	GATAGTTTGCAATACCAAAAAAATAAAAGATAATTCTGGAGAAATCATCGTACAGGTACT	1080
Qy	1182	TATGACAACACAAATAAACAAATTACCTACACTTACAGATTATGTAGATAAAATATGAA	1241
Db	1081	TATGACAACACAAATAAACAAATTACCTACACTTACAGATTATGTAGATAAAATATGAA	1140
Qy	1242	AATATTAAAGCGCACCTTAAATTAAACATCATACATTGATAATCAAAGGTTCCAAATAAT	1301
Db	1141	AATATTAAAGCGCACCTTAAATTAAACATCATACATTGATAATCAAAGGTTCCAAATAAT	1200
Qy	1302	AACACTAAGTTAGATGTAGAATATAAGACGGCCCTTCATCAGTAAATAAAACAATTACG	1361
Db	1201	AACACTAAGTTAGATGTAGAATATAAGACGGCCCTTCATCAGTAAATAAAACAATTACG	1260
Qy	1362	GTTGAATATCAAAACCTAACGAAATCGGACTGCTAACCTCAAAGTATGTTACAAAC	1421
Db	1261	GTTGAATATCAAAACCTAACGAAATCGGACTGCTAACCTCAAAGTATGTTACAAAC	1320
Qy	1422	ATAGATACGAAAAACCATACAGTTGAGCAAACGATTATATTAAACCTCTCGTTATTCA	1481
Db	1321	ATAGATACGAAAAACCATACAGTTGAGCAAACGATTATATTAAACCTCTCGTTATTCA	1380
Qy	1482	GCACAAAGAAACAAATGTAATATTCAGGGAATGGGATGAAGGTTCAACAATTATCGAC	1541
Db	1381	GCACAAAGAAACAAATGTAATATTCAGGGAATGGGATGAAGGTTCAACAATTATCGAC	1440
Qy	1542	GATAGTACAATCATTAAAGTTATAAGGTTGGAGATAATCAAATTACAGATAGAAC	1601
Db	1441	GATAGTACAATCATTAAAGTTATAAGGTTGGAGATAATCAAATTACAGATAGAAC	1500
Qy	1602	AGAATTATGATTACAGTGAATATGAAGATGTACAAATGATGATTATGCCAATTAGGA	1661
Db	1501	AGAATTATGATTACAGTGAATATGAAGATGTACAAATGATGATTATGCCAATTAGGA	1560
Qy	1662	AATAATAATGACGTGAATATTAATTITGGTAATATAGATTACCATATATTAAAGTT	1721
Db	1561	AATAATAATGACGTGAATATTAATTITGGTAATATAGATTACCATATATTAAAGTT	1620
Qy	1722	ATTAGTAAATATGACCTAATAAGGACGATTACACGACGATACAGCAAACGTGACAATG	1781
Db	1621	ATTAGTAAATATGACCTAATAAGGACGATTACACGACGATACAGCAAACGTGACAATG	1680

10615383. t xt

Qy	1782	CAAACGACTATAATGAGTATACTGGTAGTTAGAACAGCATCCTATGATAATACAATT	1841
Db	1681	CAAACGACTATAATGAGTATACTGGTAGTTAGAACAGCATCCTATGATAATACAATT	1740
Qy	1842	GCTTCTCTACAAGTCAGGTCAAGGACAAGGTGACTTGCTCCTGAAAAAACTTATAAA	1901
Db	1741	GCTTCTCTACAAGTCAGGTCAAGGACAAGGTGACTTGCTCCTGAAAAAACTTATAAA	1800
Qy	1902	ATCGGAGATTACGTATGGGAAGATGTAGATAAAGATGGTATTCAAAATACAAATGATAAT	1961
Db	1801	ATCGGAGATTACGTATGGGAAGATGTAGATAAAGATGGTATTCAAAATACAAATGATAAT	1860
Qy	1962	GAAAAACCGCTTAGTAATGTATTGGTAACCTTGACGTATCCTGATGGAACCTCAAAATCA	2021
Db	1861	GAAAAACCGCTTAGTAATGTATTGGTAACCTTGACGTATCCTGATGGAACCTCAAAATCA	1920
Qy	2022	GTCAGAACAGATGAAGAGGGAAATATCAATTGATGGTTAAAAAACGGATTGACTTAT	2081
Db	1921	GTCAGAACAGATGAAGAGGGAAATATCAATTGATGGTTAAAAAACGGATTGACTTAT	1980
Qy	2082	AAAATTACATTGAAACACCGGAAGGATATACGCCGACGCTTAAACATTCAAGAACAAAT	2141
Db	1981	AAAATTACATTGAAACACCGGAAGGATATACGCCGACGCTTAAACATTCAAGAACAAAT	2040
Qy	2142	CCTGCCTAGACTCAGAAGCAATTCTGTATGGTAACATTAAACGGACAAGACGATATG	2201
Db	2041	CCTGCCTAGACTCAGAAGCAATTCTGTATGGTAACATTAAACGGACAAGACGATATG	2100
Qy	2202	ACTATTGATAGCGGATTTATCAAACACCTAAATATAGCTAGGAACTATGTATGGTAT	2261
Db	2101	ACTATTGATAGCGGATTTATCAAACACCTAAATATAGCTAGGAACTATGTATGGTAT	2160
Qy	2262	GACACTAATAAAGATGGTATTCAAGGTGATGATGAAAAAGGAATCTCTGGAGTAAAAGTG	2321
Db	2161	GACACTAATAAAGATGGTATTCAAGGTGATGATGAAAAAGGAATCTCTGGAGTAAAAGTG	2220
Qy	2322	ACGTTAAAGATGAAACCGAAATATCATTAGTACAACAACAACGTGAAATGGAAAG	2381
Db	2221	ACGTTAAAGATGAAACCGAAATATCATTAGTACAACAACAACGTGAAATGGAAAG	2280
Qy	2382	TATCAATTGATAATTAAATAGTGGTAATTATATTGTTCATTTGATAAACCTTCAGGT	2441
Db	2281	TATCAATTGATAATTAAATAGTGGTAATTATATTGTTCATTTGATAAACCTTCAGGT	2340
Qy	2442	ATGACTCAAACAACAACAGATTCTGGTAGATGACGAACAGGTGCTGATGGGAAGAA	2501
Db	2341	ATGACTCAAACAACAACAGATTCTGGTAGATGACGAACAGGTGCTGATGGGAAGAA	2400
Qy	2502	GTCCATGTAACAATTACTGATCATGATGACTTAGTATAGATAACGGACTATGATGAC	2561
Db	2401	GTCCATGTAACAATTACTGATCATGATGACTTAGTATAGATAACGGACTATGATGAC	2460
Qy	2562	GACTCAGATTCAAGATAGTGATTCAAGACTCAGATAGCGACGACTCAGACTCCGATAGCGAT	2621
Db	2461	GACTCAGATTCAAGATAGTGATTCAAGACTCAGATAGCGACGACTCAGACTCCGATAGCGAT	2520
Qy	2622	TCCGACTCAGACAGCGACTCAGATTCCGATAGTGATTCAAGACAGTGACTCAGAC	2681
Db	2521	TCCGACTCAGACAGCGACTCAGATTCCGATAGTGATTCAAGACAGTGACTCAGAC	2580
Qy	2682	TCAGATAGTGATTCAAGATTCAAGACAGCGATTCCGACTCAGACAGTGACTCAGGATTAGAC	2741
Db	2581	TCAGATAGTGATTCAAGATTCAAGACAGCGATTCCGACTCAGACAGTGACTCAGGATTAGAC	2640

10615383. txt

Qy 2742 AATAGCTCAGATAAGAATACAAAAGATAAAATTACCGGATACAGGAGCTAATGAAGATCAT 2801
|||
Db 2641 AATAGCTCAGATAAGAATACAAAAGATAAAATTACCGGATACAGGAGCTAATGAAGATCAT 2700
|||
Qy 2802 GATTCTAAAGGCACATTACTTGGAGCTTATTGCAGGTTAGGAGCGTTATTATTAGGG 2861
|||
Db 2701 GATTCTAAAGGCACATTACTTGGAGCTTATTGCAGGTTAGGAGCGTTATTATTAGGG 2760
|||
Qy 2862 AAGCGTCGAAAAATAGAAAAAATAAAAATTAA 2894
|||
Db 2761 AAGCGTCGAAAAATAGAAAAAATAAAAATTAA 2793

Title: US- 10- 615- 383A- 10
Perfect score: 4824
Sequence: 1 LKKNNLLTKKKPI ANKSNKY. FAGLGALLLGKRRKNRKNKN 930

RESULT 3

ABP40469

ID ABP40469 standard; protein; 930 AA.

XX

AC ABP40469;

XX

DT 24- JUL- 2002 (first entry)

XX

DE Staphylococcus epidermidis ORF amino acid sequence SEQ ID NO: 5314.

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KW Staphylococcus epidermidis; open reading frame; ORF; bacterial infection;

KW antibiotic; gene therapy.

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OS Staphylococcus epidermidis.

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PN US6380370- B1.

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PD 30- APR- 2002.

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PF 13- AUG- 1998; 98US- 00134001.

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PR 14- AUG- 1997; 97US- 0055779P.

PR 08- NOV- 1997; 97US- 0064964P.

XX

PA (GENO-) GENOME THERAPEUTICS CORP.

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PI Doucette- Stamm LA, Bush D;

XX

DR WPI ; 2002- 381255/ 41.

DR N- PSDB; ABN93014.

XX

PT Novel isolated nucleic acid encoding a Staphylococcus epidermidis

PT polypeptide, useful for diagnosing and treating bacterial infections.

XX

PS Disclosure; SEQ ID NO 5314; 267pp; English.

XX

CC ABN90538 to ABN93374 represent Staphylococcus epidermidis open reading
CC frame (ORF) nucleic acid sequences which encode the amino acid sequences
CC given in ABP35124 to ABP37960. The S. epidermidis sequences have
CC antibacterial activity and can be used in gene therapy. The sequences can
CC also be used in the diagnosis and treatment of bacterial infections,
CC particularly S. epidermidis infections. The sequences can be used to
CC screen for compounds able to interfere with the S. epidermidis life cycle
CC or inhibit S. epidermidis infection. N.B. The sequence data for this
CC patent did not form part of the printed specification, but was obtained

10615383.txt

CC in electronic format directly from the USPTO web site
 XX
 SQ Sequence 930 AA;

Query Match 99.9% Score 4820; DB 1; Length 930;
 Best Local Similarity 99.9%
 Matches 929; Conservative 0; Matches 1; Indels 0; Gaps 0;

Qy	1 LKKNNLLTKKPKI ANKSNKYAI RKFTVGTASI VI GAALLFGLGHNEAKAEENTVQDVKDS 60
Db	1 LKKNNLLTKKPKI ANKSNKYAI RKFTVGTASI VI GATLLFGLGHNEAKAEENTVQDVKDS 60
Qy	61 NMDDELSDSNDQSSNEEKNDVI NNSQSI NTDDDNQI KKEETNSNDAI ENRSKDI TQSTTN 120
Db	61 NMDDELSDSNDQSSNEEKNDVI NNSQSI NTDDDNQI KKEETNSNDAI ENRSKDI TQSTTN 120
Qy	121 VDENEATFLQKTPQDNTQLKEEVVKEPSSVESSNSSMDTAQQPSHTTINSEASIQTSDFNE 180
Db	121 VDENEATFLQKTPQDNTQLKEEVVKEPSSVESSNSSMDTAQQPSHTTINSEASIQTSDFNE 180
Qy	181 ENSRVSDFANSKI I ESNTESNKEENTI EQPNKVREDSITSQPSSYKNI DEKISNQDELLN 240
Db	181 ENSRVSDFANSKI I ESNTESNKEENTI EQPNKVREDSITSQPSSYKNI DEKISNQDELLN 240
Qy	241 LPI NEYENKVRPLSTTSAQPSSKRVTVNQLAAEQQSVNHЛИ KVTDQSI TEGYDDSDGI 300
Db	241 LPI NEYENKVRPLSTTSAQPSSKRVTVNQLAAEQQSVNHЛИ KVTDQSI TEGYDDSDGI 300
Qy	301 KAHDAENLI YDVTFEVDDKVKSGDTMTVNI DKNTVPSDLTDSFAIPKIKDNSGEI ATGT 360
Db	301 KAHDAENLI YDVTFEVDDKVKSGDTMTVNI DKNTVPSDLTDSFAIPKIKDNSGEI ATGT 360
Qy	361 YDNTNKQI TYTFTDYVDKYENI KAHLKLTSYIDKSVPNNNTKLDVEYKTALSSVNKTIT 420
Db	361 YDNTNKQI TYTFTDYVDKYENI KAHLKLTSYIDKSVPNNNTKLDVEYKTALSSVNKTIT 420
Qy	421 VEYQKPNENRTANLQSMFTNI DTKNHTVEQTIIYINPLRYSAKETNVNISGNGDEGSTIID 480
Db	421 VEYQKPNENRTANLQSMFTNI DTKNHTVEQTIIYINPLRYSAKETNVNISGNGDEGSTIID 480
Qy	481 DSTI I KVYKVGDNQNL PDSNRI YDYSEYEDVTNDDYAQLGNNDVNI NFGNI DSPYI KV 540
Db	481 DSTI I KVYKVGDNQNL PDSNRI YDYSEYEDVTNDDYAQLGNNDVNI NFGNI DSPYI KV 540
Qy	541 ISKYDPNKDDYTTI QQTVMQTTI NEYTGEFRASYDNTIAFSTSSGQQGQDLPPEKTYK 600
Db	541 ISKYDPNKDDYTTI QQTVMQTTI NEYTGEFRASYDNTIAFSTSSGQQGQDLPPEKTYK 600
Qy	601 I GDYVWEDVDKDGI QNTNDNEKPLSNVLVTL TYPDGTSKSVRTDEEGKYQFDGLKNGLTY 660
Db	601 I GDYVWEDVDKDGI QNTNDNEKPLSNVLVTL TYPDGTSKSVRTDEEGKYQFDGLKNGLTY 660
Qy	661 KITFETPEGYPTLKHSGTNPALDSEGNSVWTI NGQDDMTIDSGFYQTPKYSLGNYWW 720
Db	661 KITFETPEGYPTLKHSGTNPALDSEGNSVWTI NGQDDMTIDSGFYQTPKYSLGNYWW 720
Qy	721 DTNKGDI QGDDEKGI SGVKVTLKDENGNISTTTDENGKYQFDNLNSGNYIVHFDKPSG 780
Db	721 DTNKGDI QGDDEKGI SGVKVTLKDENGNISTTTDENGKYQFDNLNSGNYIVHFDKPSG 780
Qy	781 MTQTTDSGDDDEQDADGEVHVTIDHDDFSIDNGYYDDSDSDSDSDSDSDSDSDSDSDSD 840
Db	781 MTQTTDSGDDDEQDADGEVHVTIDHDDFSIDNGYYDDSDSDSDSDSDSDSDSDSDSDSD 840

Qy 841 SDGIDNSSDKNTKDKLPDTGANEDH 900
 Db 841 |||||||SDGIDNSSDKNTKDKLPDTGANEDH 900
 Qy 901 DSKGTLLGALFAGLGALLLGKRRKNRKNKN 930
 Db 901 |||||||DSKGTLGALFAGLGALLLGKRRKNRKNKN 930

Title: US- 10- 615- 383A- 10_COPY_51_598
 Perfect score: 2808
 Sequence: 1 ENTVQDVKDSNMDDELSDSN. TI AFSTSSGQQQQLPPEKT 548

RESULT 4

ABP40469

ID ABP40469 standard; protein; 930 AA.

XX

AC ABP40469;

XX

DT 24-JUL-2002 (first entry)

XX

DE Staphylococcus epidermidis ORF amino acid sequence SEQ ID NO: 5314.

XX

KW Staphylococcus epidermidis; open reading frame; ORF; bacterial infection;
 KW antibacterial; gene therapy.

XX

OS Staphylococcus epidermidis.

XX

PN US6380370-B1.

XX

PD 30-APR-2002.

XX

PF 13-AUG-1998; 98US-00134001.

XX

PR 14-AUG-1997; 97US-0055779P.

PR 08-NOV-1997; 97US-0064964P.

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PA (GENO-) GENOME THERAPEUTICS CORP.

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PI Doucette- Stamm LA, Bush D;

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DR WPI ; 2002-381255/41.

DR N-PSDB; ABN93014.

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PT Novel isolated nucleic acid encoding a Staphylococcus epidermidis polypeptide, useful for diagnosing and treating bacterial infections.

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PS Disclosure; SEQ ID NO 5314; 267pp; English.

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CC ABN90538 to ABN93374 represent Staphylococcus epidermidis open reading frame (ORF) nucleic acid sequences which encode the amino acid sequences given in ABP35124 to ABP37960. The S. epidermidis sequences have antibacterial activity and can be used in gene therapy. The sequences can also be used in the diagnosis and treatment of bacterial infections, particularly S. epidermidis infections. The sequences can be used to screen for compounds able to interfere with the S. epidermidis life cycle or inhibit S. epidermidis infection. N.B. The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from the USPTO web site

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10615383.t xt

SQ Sequence 930 AA;

Query Match 100.0% Score 2808; DB 1; Length 930;
Best Local Similarity 100.0%
Matches 548; Conservative 0; Missmatches 0; Indels 0; Caps 0;

Qy 1 ENTVQDVKDSNMDDELSDSNDQSSNEEKNDVI NNSQSI NTDDDNQI KKEETNSNDAI ENR 60
Db 51 ENTVQDVKDSNMDDELSDSNDQSSNEEKNDVI NNSQSI NTDDDNQI KKEETNSNDAI ENR 110

Qy 61 SKDI TQSTTNVDENEATFL QKTPQDNTQL KEEVKEPSSVESSNSSMTAQQPSHTTI NS 120
Db 111 SKDI TQSTTNVDENEATFL QKTPQDNTQL KEEVKEPSSVESSNSSMTAQQPSHTTI NS 170

Qy 121 EASI QTSDNEENSRVSDFANSKI I ESNTESNKEENTI EQPNKVREDSI TSQPSSYKNI DE 180
Db 171 EASI QTSDNEENSRVSDFANSKI I ESNTESNKEENTI EQPNKVREDSI TSQPSSYKNI DE 230

Qy 181 KI SNQDELLNLPI NEYENKVRPLSTTSAQPKSSKRVTVNQLAAEQGSNVNHLI KVTDQSI T 240
Db 231 KI SNQDELLNLPI NEYENKVRPLSTTSAQPKSSKRVTVNQLAAEQGSNVNHLI KVTDQSI T 290

Qy 241 EGYDDSDGI I KAHDAENLI YDVTFEVDDKVKSGDTMTVNI DKNTVPSDLTDSFAI PKI KD 300
Db 291 EGYDDSDGI I KAHDAENLI YDVTFEVDDKVKSGDTMTVNI DKNTVPSDLTDSFAI PKI KD 350

Qy 301 NSGEI I ATGTYDNTNKQI TYTFTDYVDKYENI KAHKLKLTSYI DKS KVPNNNTKL DVEYKT 360
Db 351 NSGEI I ATGTYDNTNKQI TYTFTDYVDKYENI KAHKLKLTSYI DKS KVPNNNTKL DVEYKT 410

Qy 361 ALSSVNKT I TVEYQKPNENRTANLQSMFTNI DTKNHTVEQT I YI NPL RYSAKETNVNI SG 420
Db 411 ALSSVNKT I TVEYQKPNENRTANLQSMFTNI DTKNHTVEQT I YI NPL RYSAKETNVNI SG 470

Qy 421 NGDEGSTI I DDSTI I K VYKVGDQNQL PDSNRI YDYSEYEDVTNDDY AQL GNNNDVNI NFG 480
Db 471 NGDEGSTI I DDSTI I K VYKVGDQNQL PDSNRI YDYSEYEDVTNDDY AQL GNNNDVNI NFG 530

Qy 481 NI DSPYI I KVI SKYDPNKDDYTTI QQTVTMQTTI NEYTGEFR TASYDNTI AFSTSSGQQQ 540
Db 531 NI DSPYI I KVI SKYDPNKDDYTTI QQTVTMQTTI NEYTGEFR TASYDNTI AFSTSSGQQQ 590

Qy 541 GDLPPEKT 548
Db 591 GDLPPEKT 598